B276/B277 Product Support Guide

Introduction:

Product Type:	**B/W MFP Segment 1**
Launch Date:	**02/2007**
S/N Configuration:	**L68/L70**
Product Code:	**B276/B277**

Product Code	Gestetner	Lanier	Ricoh	Savin
B276	DSm716	LD316	Aficio MP 1600	9016
	DSm716spf	LD316spf	Aficio MP 1600spf	9016spf
	DSm716s	LD316L	Aficio MP 1600L	9016s
B277	DSm721d	LD320d	Aficio MP 2000	9021d
	DSm721dspf	LD320dspf	Aficio MP 2000spf	9021dspf
	DSm721ds	LD320dL	Aficio MP 2000L	9021ds

Training Information:

- Technicians with certification on the B259/B260/B261/B121/B122/B123 will be automatically certified on this Series upon receipt and review of the B276/B277 Service Documentation Update Package.
- Technicians who are **not** eligible for automatic certification can be trained on this series by ordering the complete B276/B277 Series Self-Pace CBT Training.

Documentation:

Description	EDP Code	E-Source Content ID
B276/B277 Training Info CBT Training	001126MIU	---
B276/B277 Service Documentation Update Package to the B121/ B259 series	002930MIU	---
B276/B277 Service Manual	002706MIU	Rfg022973
B276/B277 Parts Catalog	002707MIU	Rfg022983
B276/B277 Point to Points	002931MIU	Rfg025653

If you have any questions regarding this or any other training, please contact Ricoh University at (973) 882-5797 or http://www.ricohuniversity.com. The email address is ricoh.university@ricoh-usa.com.

Product Concept:

- New operation panel, which features improved usability and accessibility
- Network printing with security and other advanced features.
- Or Simple printing and TWAIN scanning with copier features
- ARDF and ADF: Supports up to DLT size
- PCL and RPCS drivers support the bi-directional communication without SmartDeviceMonitor for Client.
- User Authentication function with SD card is supported with the GW controller installed.
- **Note:** This model does not require the HDD for User Authentication function.
- This product does not have a HDD.

Print Speed:

B276 16cpm, LT
B277 21cpm, LT

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Machine Configuration:

ADF/ARDF option

Internal one bin tray optional for the 21 cpm machines. Comes standard in the SPF version machines

Duplex standard on the 21 cpm machines. No duplex for 16 cpm machines

Bypass standard on all machines

Paper tray unit Standard 250 x 1 for the 16 cpm machines and 250 x 2 for the 21 cpm machines

Optional Paper Tray: 500 x 1 paper bank tray or 500 x 2 paper bank tray

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Product Order Numbers:

Mainframe:

Product Code	EDP Code	Lanier ID	Item	Model Name
B276	413566	479-1677	16 CPM Copier mainframe with 250 x 1 paper tray, 100 sheet bypass, 16Mb RAM (NOTE: requires DF2000 or Platen Cover Type 1018)	Gestetner DSm716 Lanier LD316 RICOH Aficio MP 1600 Savin 9016
B276	413567	N/A	16 CPM MFP Printer/ Scanner/ Fax/ Copier GW controller mainframe with network and USB, 384Mb RAM, 250 x 1 paper tray, 100 sheet bypass, Also has enhanced Document Solutions from previous model (NOTE: requires DF2000 or Platen Cover Type 1018)	Gestetner DSm716spf Lanier LD316SPF RICOH Aficio MP 1600spf Savin 9016spf
B276	413568	N/A	16 CPM Copier mainframe with DDST and PCL basic network printing or USB printing, TWAIN scanning and no fax capabilities 250 x 1 paper tray, 100 sheet bypass, 64Mb RAM (NOTE: requires DF2000 or Platen Cover Type 1018)	Gestetner DSm716s Lanier LD316L RICOH Aficio MP 1600L Savin 9016s
B277	413569	479-1678	21 CPM Copier mainframe with 250 x 2 paper trays, 100 sheet bypass, duplex, 16Mb RAM (NOTE: requires DF2010, DF2000 or Platen Cover Type 1018)	Gestetner DSm721d Lanier LD320d RICOH Aficio MP 2000 Savin 9021d
B277	413570	N/A	21 CPM MFP Printer/ Scanner/ Fax/ Copier GW controller mainframe with network and USB, 250 x 2 paper trays 100 sheet bypass, duplex, one bin tray, 384Mb RAM. Also has enhanced Document Solutions from previous model (NOTE: requires DF2010, DF2000 or Platen Cover Type 1018)	Gestetner DSm721dspf Lanier LD320dSPF RICOH Aficio MP 2000spf Savin 9021dspf

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Product Code	EDP Code	Lanier ID	Item	Model Name
B277	413571	N/A	21 CPM Copier mainframe with DDST and PCL basic network printing or USB printing, 250 x 2 paper trays 100 sheet bypass, duplex, 64Mb RAM, TWAIN scanning and no fax capabilities (NOTE: requires DF2010, DF2000 or Platen Cover Type 1018)	Gestetner DSm721ds Lanier LD320dL RICOH Aficio MP 2000L Savin 9021ds

Product Order Numbers Options:

Product Code	EDP Code	Lanier ID	Item	Model Name
B867	413572	481-7122	Kit includes the GW controller, printer/scanner SD card, 256Mb DIMM, NIC, USB 2.0, (NOTE: This option is to upgrade the copier mainframe models only)	Printer/Scanner Unit Type 2000 Kit
B868	413573	481-7124	Kit includes the GW controller and Fax unit and address book SD card. (Note: This option is to upgrade the copier mainframe models only. This unit CANNOT be installed in the L version [DDST] models)	Fax Option Type 2000 Kit
---	413574	481-7195	Kit includes the GW controller, printer/SD SD card, 256Mb DIMM, Fax option and fax addressbook SD Card. (Note: This option is to upgrade the copier mainframe models only. This unit CANNOT be installed in the L version (DDST) models)	Print/Scan/Fax Kit (All-In-One Unit)
B896	413288	481-7125	PostScript3 Unit Type 2000 (Note: This option can only be used with the GW controller)	PostScript3 Unit Type 2000
B272	412933	481-7037	Accessibility Handle for mainframe (NOTE: max one option per 16cpm models and max 2 for 21 cpm models)	Accessibility Handle Type A
B274	412934	481-7038	Accessibility Handle for paper banks (NOTE: max one for PS460 and max two for PS450)	Accessibility Handle Type B

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Product Code	EDP Code	Lanier ID	Item	Model Name
B406	412524	481-0397	Platen Cover Type 1018 (Note: Platen cover, ADF or RADF can only have one at a time installed)	Platen Cover Type 1018
B813	412741	216-7149	ADF DF2000 (Note: Platen cover, ADF or RADF can only have one at a time installed)	ADF DF2000
B814	412743	216-7150	ARDF DF2010 (Note: Platen cover, ADF or RADF can only have one at a time installed)	ARDF DF2010
B385	412560	481-0387	1 Tray Paper Bank 500 x 1 (Note: PS450 and PS460 cannot be installed at the same time, FAC15 cabinet recommended)	PS460
B384	412557	481-0388	2 Tray Paper Bank 500 x 2 (Note: PS450 and PS460 cannot be installed at the same time, FAC17 cabinet recommended)	PS450
B621	412565	481-0996	1-bin tray 100 sheet capacity (This can only be put on a 21 cpm model machine. It is included with the SPF version from the factory)	PT340
B433	410781	481-0393	Handset Type 1018 (Note: Fax must be installed to use this option)	Handset Type 1018
B679	411699	481-0786	IEEE1284 Interface Board Type A (Note: IEEE1284, Bluetooth, or IEEE 802.11b cannot be installed at the same time. This option can only be used with the GW controller)	IEEE1284 Interface Board Type A
G813	402378	481-0907	IEEE802.11b Interface Unit Type H (Note: IEEE1284, Bluetooth, or IEEE 802.11b cannot be installed at the same time. This option can only be used with the GW controller)	IEEE802.11b Interface Unit Type H
B826	412866	216-7092	Bluetooth Interface Unit Type 324 (Note: IEEE1284, Bluetooth, or IEEE 802.11b cannot be installed at the same time. This option can only be used with the GW controller)	Bluetooth Interface Unit Type 324
B870	413012	216-7186	Optional Counter Interface Unit Type A	Optional Counter Interface Unit Type A

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Product Code	EDP Code	Lanier ID	Item	Model Name
---	411066	481-0820	FAC17 Small Cabinet (recommended for use with PS450 paper bank)	Small Cabinet
---	411064	481-0819	FAC15 Medium Cabinet (recommended for use with PS460 paper bank)	Medium Cabinet
---	411065	481-0819	FAC16 Large Cabinet	Large Cabinet
B897	413201	---	Ricoh MP 1600 branding emblem	Ricoh MP 1600 branding emblem
B897	413202	---	Savin 9016 branding emblem	Savin 9016 branding emblem
B897	413203	---	Gestetner DSm716 branding emblem	Gestetner DSm716 branding emblem
B897	---	481-7299	Lanier LD316 branding emblem	Lanier LD316 branding emblem
B897	413204	---	Ricoh MP 2000 branding emblem	Ricoh MP 2000 branding emblem
B897	413205	---	Savin 9021d branding emblem	Savin 9021d branding emblem
B897	413206	---	Gestetner DSm716d branding emblem	Gestetner DSm716d branding emblem
B897	---	481-7300	Lanier LD320d branding emblem	Lanier LD320d branding emblem
---	002895MIU	---	Ricoh MP 1600L branding emblem	Ricoh MP 1600L branding emblem
---	002896MIU		Ricoh MP 2000L branding emblem	Ricoh MP 2000L branding emblem
---	002897MIU	---	Savin 9016s Branding Emblem	Savin 9016s Branding Emblem
---	002898MIU	---	Savin 9021ds Branding Emblem	Savin 9021ds Branding Emblem
---	002899MIU	---	Gestetner DSm716s Branding Emblem	Gestetner DSm716s Branding Emblem
---	002900MIU	---	Gestetner DSm721ds Branding Emblem	Gestetner DSm721ds Branding Emblem
---	413577	---	Ricoh Printer CD for Type 2000 GW controller	Ricoh Printer CD for Type 2000 GW controller
---	413578	---	Savin Printer CD for Type 2000 GW controller	Savin Printer CD for Type 2000 GW controller
---	413579	---	Gestetner Printer CD for Type 2000 GW controller	Gestetner Printer CD for Type 2000 GW controller
---	---	481-7196	Printer CD for Type2000 – Lanier GW controller	Printer CD for Type2000 – Lanier for GW controller
---	413785	---	Ricoh OP Manual for Type 2000 GW controller	Ricoh OP Manual for Type 2000 GW controller
---	413786	---	Savin OP Manual for Type 2000 GW controller	Savin OP Manual for Type 2000 GW controller
---	413787	---	Gestetner OP Manual for Type 2000 GW controller	Gestetner OP Manual for Type 2000 GW controller
---	---	481-7204	Lanier OP Manual for Type 2000 GW controller	Lanier OP Manual for Type 2000 GW controller

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Product Code	EDP Code	Lanier ID	Item	Model Name
---	413790	---	Ricoh Printer CD for DDST-A/B (PCL5e is available as a download from the website and will not be on the driver CD)	Ricoh Printer CD for DDST-A/B
---	413791	---	Savin Printer CD for DDST-A/B (PCL5e is available as a download from the website and will not be on the driver CD)	Savin Printer CD for DDST-A/B
---	413792	---	Gestetner Printer CD for DDST-A/B (PCL5e is available as a download from the website and will not be on the driver CD)	Gestetner Printer CD for DDST-A/B
---	---	481-7205	Lanier Printer CD for DDST-A/B (PCL5e is available as a download from the website and will not be on the driver CD)	Lanier Printer CD for DDST-A/B
---	413794	---	Ricoh OP Manual for DDST A/B printer option	Ricoh OP Manual for DDST A/B
---	413795	---	Savin OP Manual for DDST A/B printer option	Savin OP Manual for DDST A/B
---	413796	---	Gestetner OP Manual for DDST A/B printer option	Gestetner OP Manual for DDST A/B
---	---	481-7206	Lanier OP Manual for DDST A/B printer option	Lanier OP Manual for DDST A/B

Supply Order Numbers / Yields:

Item	EDP Code/ Product Code/ Lanier ID	Name	Target Yield
Gestetner DSm716/ DSm716spf/ DSm716s/ DSm721d/ DSm721dspf/ DSm721ds			
Toner	89896	Toner DT42BLK	9K
Marker 30	1600089	Marker Type 30	4 markers per box
Lanier LD316/ LD316L/ LD320d/ LD316Ld			
Toner	717-0212	Black Toner	9K
Marker Type 30	491-0245	Marker Type 30	4 markers per box
Ricoh Aficio MP 1600/ Aficio MP 1600spf/ Aficio MP 1600L/ Aficio MP 2000/ Aficio MP 2000spf/ Aficio MP 2000L			
Toner	888215	Black Toner Type 1130D	9K
Marker Type 30	334049	Marker Type 30	4 markers per box
Savin 9016/ 9016spf/ 9016s/ 9021d/ 9021dspf/ 9021ds			
Toner	9896	Black Toner Type 4018	9K
Marker Type 30	1600089	Marker Type 30	4 markers per box

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Major Differences Between Models:

	B259/B260/B261	B276/B277 GW Controller	B276/B277 DDST Controller
Copy speed:	16/20/21 cpm	16/21 cpm	16/21 cpm
Warm-up Time:	Basic: Less than 15 seconds MFP: (GW) Less than 30 seconds	Basic: Less than 15 seconds MFP (GW) Less than 28 seconds	Basic: Less than 15 seconds MFP (DSST) Less than 15 seconds
Memory Capacity: (engine):			
Standard:	16MB	16MB	16MB
Option:	None	None	None
Fax Option:	Yes	Yes	No
GDI Printer Option:	No	No	Yes
PostScript Option:	Yes	Yes	No
TWAIN Scanning:	Yes	Yes	Yes

Cross Reference Matrix:

GW Controller:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1.Platen Cover		X	X														
2.ADF	X		X														
3.ARDF	X	X															
4.Paper Bank 500x1					X												
5.Paper Bank 500x2				X													
6.Accessibility handle (Std Tray)																	
7.Accessibility handle (opt Tray)				M													
8.1 Bin Tray (21 cpm only)																	
9.GW Board										X	X						
10.Printer/Scanner Option									M								
11.PostScript 3									M	M							
12. Wireless LAN I/F									M	M				X	X		
13. IEEE 1284 I/F									M	M		X		X			
14. Bluetooth									M	M		X	X				
15. Fax Option									M								
16. Handset									M						X		
17. Optional Counter Interface																	

X: Cannot be installed together
M: Must be installed together

DDST Controller:

	1	2	3	4	5	6	7	8	9	10	11	12
1.Platen Cover		X	X									
2.ADF	X		X									
3.ARDF	X	X										
4.Paper Bank 500x1					X							
5.Paper Bank 500x2				X								
6.Accessibility handle (Std Tray)												
7.Accessibility handle (opt Tray)				M								
8.1 Bin Tray (21 cpm only)												
9.GDI without NIC option										X	X	
10.GDI with NIC option									X			
11.PCL option									X	M		
12. Optional Counter Interface												

X: Cannot be installed together
M: Must be installed together

General Engine Features:

		Remarks
Technology:		
Reading element:	Flatbed with CCD array image-sensor	
Printing processing:	Laser beam scanning/marking & electro-photographic printing. Dry, dual component toner development	
Input Capacity:		
Standard:	16 cpm: 250 sheets tray x 1 21 cpm: 250 sheets tray x 2 *100 sheets multi bypass tray for both cpm	*Bypass tray and duplex unit do not work together.
Options:	*500 sheets tray x 1 or 500 sheets tray x 2	Max total capacity: 850 sheets
Output Capacity:		
Standard:	250 sheets (internal tray)	
Optional:	100 sheets 21 cpm only	
Paper Size:		
Standard Tray Size:	5 1/2" x 8 1/2" (LEF) (min), 11" x 17" (SEF) (max)	
Bypass Tray Size:	5 1/2"x 8 1/2" (SEF) (min), 11" x 17" (SEF) (max)	
Duplex Size:	8 1/2" x 11"(SEF) (min) , 11" x 17" (SEF) (max)	
Paper Weight:		
Standard Tray:	60 to 90 g/m^2 (16 - 24 lbs.)	
Bypass Tray:	52 to 162 g/m^2 (14 - 43 lbs.)	
Duplex Unit:	64 to 90 g/m^2 (20 - 24 lbs.)	
Power consumption:	Full system: 1.28kW	

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General Copy Features:

		Remarks
1st copy speed:	6.5 seconds or less	A4/ 8 1/2" x 11" (LEF) from the standard tray, no R/E
Multi copy speed:	16cpm 21 cpm	A4 / 8 1/2" x 11" (LEF), no R/E
Multiple copy:	Up to 99	
Resolution:	600 dpi	
Gray Scale (per dot):	Scanning: 256 levels, Marking: Binary	
Warm-up time:		20 degrees C
Basic:	Less than 15 seconds	
GW Controller:	Less than 26 seconds	
DDST Controller:	Less than 15 seconds	
Recovery time:	Less than 10 seconds	
Engine Memory Capacity:	16MB optional none	
Enlargement:	121, 129, 155 %	3E
Reduction:	93, 78, 65, 50%	4R
Zoom:	50% to 200% in 1% step	
Image density adjustment:	Manual or automatic	
Interrupt copy:	Not available	
User code:	Standard (50 codes, eight digits)	

Copy Speed Matrix:

16 cpm:

	Continuous	DF 1 to 1
A4/8 1/2*11"	**16**	**16**
B4/8 1/2*14"	**11**	**10**
A3/11*14"	**10**	**8**

21 cpm:

	Continuous		DF 1 to 1	
	1s -> 1s	**1s -> 2s 2s -> 2s 2s -> 1s**	**1s -> 1s**	**1s -> 2s 2s -> 2s 2s -> 1s**
A4/8 1/2*11"	**21**	**20**	**18**	**7 (*1)**
B4/8 1/2*14"	**13**	**7**	**10**	**5**
A3/11*14"	**11**	**5**	**9**	**4**

NOTE: When expanded to MFP, 1 sided → 2 sided will be 18 cpm, and 2 sided → 2 sided will be 11 cpm.
1s means 1 side, 2s means 2 sides.

Number of pages stored in the memory when sort copying:

Mode	Paper Size	Ricoh 6% chart	IT UT No.4 chart	IT UT No.1 chart	Lipstick chart
Text	A4/ 8.5 x 11	73	34	118	8
	A3/ 11 x17	22	9	36	-
Photo	A4/ 8.5 x 11	40	21	72	9
	A3/ 11 x17	12	6	22	-

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Printer Features:

			Remarks: GW controller
CPU:			RM5231 400MHz
RAM:	Std.		384MB(Resident 128MB + additional 256MB) Additional 256MB memory is pre-installed to printer/scanner Unit.
Hard Disk Drive:			No
PDL:	Std.		RPCS, PCL5e, PCL 6
	Option		Adobe Postscript 3
Print Resolution:	MAX		600 x 600 dpi (1bit)
Fonts:	Std.		PCL: 46 fonts (True type: 10 fonts, Install: 35 fonts, Bitmapped: 1 font) + International fonts 13 Intellifonts *1
	Option		PS3: 136Roman fonts
Connectivity:	Host Interface	Std.	Ethernet (RJ-45 network port: 10Base-T/100Base-TX), USB2.0
		Option	IEEE1284/ECP, IEEE802.11b, WPA Support, Blue Tooth
	Network Protocol		TCP/IP (IPv4, IPv6), IPX/SPX, Apple talk, SMB
	MIB support	Standard MIB (SMNP Printer MIB)	MIB-II (RFC1213), HostResource (RFC1514), PrinterMib (RFC1759) SNMPv3 (RFC2574)
		Private MIB	Ricoh private MIB
	Network/Operating Systems		Windows 9x/NT4.0/2000/Me/XP/Server 2003

* Cyrillic (Russian), Greek, Hebrew and Arabic are included in International Fonts.

Printer Features:

			Remarks: DDST controller
CPU:			D8701 (Destiny 200MHz MIPS)
RAM:	Std. *1		64MB
Hard Disk Drive:			No
PDL:	Std.		DDST, PCL 5e, PCL 6
	Option		None
Print Resolution:	MAX		600 x 600 dpi
Fonts:	Std.		PCL: 46 fonts (True type: 10 fonts, Install: 35 fonts, Bitmapped: 1 font)
	Option		PS3: 136Roman fonts
Connectivity:	Host Interface	Std.	Ethernet (RJ-45 network port: 10Base-T/100Base-TX), USB2.0
		Option	None
	Network Protocol		TCP/IP (IPv4), IPP
	MIB support	Standard MIB (SMNP Printer MIB)	MIB-II (RFC1213), HostResource (RFC1514), PrinterMib (RFC1759)
		Private MIB	Not Support
	Network/Operating Systems		Windows 9x/NT4.0/2000/Me/XP/Server 2003

*1 Shared with other features (Copy, Scanner)

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Supported Environments:

Terminal Service & Citrix Metaframe: GW Controller:

Server	Driver		
	PCL5c/6	RPCS	PS
Windows Server 2003	Yes	Yes	Yes
Windows 2000 Server	Yes	Yes	Yes
Windows NT4.0 TSE	Yes	Yes	Yes
Win 2003 Servers + Metaframe	Yes	Yes	Yes
Win 2000 Servers + Metaframe	Yes*1	Yes	Yes
Win NT4.0 TSE +Metaframe	Yes	Yes	Yes
Win 2003 Servers + Citrix PresentationServer4.0	Yes	Yes	Yes
Win 2000 Servers + Citrix PresentationServer4.0	Yes	Yes	Yes
Win NT4.0 TSE + Citrix PresentationServer4.0	No	No	No

Point & Print: GW Controller:

Windows OS		Drive		
Server	Client (push to)	PCL5c/6	RPCS*3	PostScript3
Windows server 2003	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	NT4.0 WS	Yes	Yes	Yes
	98 / Me	Yes	Yes	Yes
Windows XP Professional	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	NT4.0 WS	Yes	Yes	Yes
	98 / Me	Yes	Yes	Yes
Windows 2000 Professional Server & Advance Server	XP	Yes	Yes	Yes
	W2K Pro	Yes	Yes	Yes
	NT4.0 WS	Yes	Yes	Yes
	98 / Me	Yes	Yes	Yes
NT4.0 Workstation & Server (Intel)	XP	No	No	No
	W2K Pro	Yes	No	No
	NT4.0 WS	Yes	Yes	Yes
	98 / Me	Yes	Yes	Yes

[Operating Environments]
The following combinations of operating system and Citrix Metaframe are supported:
[Windows NT Server 4.0 Terminal Server Edition. - with SP6 and later required]
1. Windows Terminal Service (RDP protocol)
2. Metaframe 1.8 SP3/FR1+SP3/SP4 (ICA protocol)
3. Metaframe XP 1.0 SP1/SP2/FR1 (ICA protocol)
[Windows 2000 Server /Advanced Server -]
1. Windows Terminal Service (RDP protocol)
2. Metaframe 1.8 SP3/FR1+SP3/SP4 (ICA protocol) *1
3. Metaframe XP 1.0 SP1/SP2/SP3/SP4/FR1/FR2/FR3 (ICA protocol)
4. Metaframe PresentationServer3.0
5.Citrix PresentationServer4.0 *2
Windows 2003 Server]
1. Windows Terminal Service (RDP protocol)

2. Metaframe XP 1.0 SP4/FR3 (ICA protocol)

3. Metaframe PresentationServer3.0

4.Citrix PresentationServer4.0 *2

*1: PCL mono-drivers do not support MetaFrame1.8 + SP3 Environment. Only mini-driver support Meta1.8+SP3 Environment.

*2: Only PCL/PS drivers are tested under this environment.

Note

Even "Yes" is put in the cell, there is a case driver is not supported under the combination of FR and Service Pack of Metaframe. Please refer to the release announcement of Terminal Service for more

Mac OS: GW Controller:

	PostScript3	Printer Utility for MAC
Mac OS 8.6 or later, Mac OS X classic	**Yes**	**Yes**
Mac OS X Native: v. 10.1 or later *1	**Yes**	**Yes*2**

*1: Mac OS X v.10.0.X is not supported.
*2: Mac OS X v.10.2.0 is not supported.

Unix: GW Controller:

Unix Platforms	Version
Sun Solaris	2.6 / 7 / 8 / 9 /10
HP-UX	10.x / 11.x / 11iv2
Red Hat Linux	6.x / 7.x / 8.x / 9.x / Enterprise
SCO OpenServer	5.0.6 /5.0.7
IBM AIX	V4.3 & 5L Version 5.1/5.2 /5.3

NOTE: Supported Schedule: 2007/Q2 release
The above specification and schedule are current plan and may change in final release. Please refer to the release announcement of Unix Filter for more details. Unix Filter can be downloaded for free from the download web site such as below:
http://www.ricohusa.com/downloads/downloads.asp?path=http://us.support.ricoh.com/connectivity/rc/top/unixfilter.htm

Novell Netware: GW controller:

Netware Server	Supported Version	Netware 3.12 / 3.2 / 4.1 / 4.11 / 5.0 / 5.1 / 6.0/6.5
	Client OS	Windows 95 / 98 / Me / NT4.0 / 2000 / XP (Professional)
NDPS Gateway	Supported Server OS	Netware 5.1 (SP 8 or later) / 6.0 (SP5 or later) / 6.5 (SP-3 or later)
	Supported Client OS	Microsoft Windows 98 SE with Novell Client 3.4 Microsoft Windows NT4.0 SP6A / 2000 SP4 / XP (Professional) SP2 with Novell Client 4.90 SP2
	Localization	English, German, French, Italian, Spanish

NOTE: Supported Schedule: 2007/Q2
The above specification is current plan and may change in final release. Please refer to the release announcement of NDPS Gateway for more details

SAP R/3 Environment (Device Type / Barcode & OCR Package: GW controller:

Supported environments	R/3 version	3.x or later, mySAP ERP2004 or later
	Platform	Independent
	PDL	PCL5e/PCL 5c
	Character Set	Latin 1(Western European), Latin 2 (Eastern European)
	Localization	English only
Supported features	i.e: Input/Output Bin, Duplex, Stapling, Punching, Resolution, Collation, EconoMode/TonerSaving, Smoothing, Page Protect, Auto Tray Change/Opt Tray select	
Supported Barcode & OCR Fonts* (* BOP will be procured locally.)	Barcode Fonts (Support Latin 1 only)	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
	OCR Fonts	OCR A, OCR B

Windows OS for DDST:

OS	Type	DDST	PCL
Windows 98/Me	-	Y	Y*1
Windows 2000	Professional	Y	Y
	Server (*6)	Y	Y
	Advanced Server	Y	Y
	Datacenter Server	N	N
Windows XP	Professional	Y	Y
	Home Edition	Y	Y
Windows Server 2003	Standard Edition	Y	Y
	Enterprise Edition	N	N
	Datacenter Edition	N	N
	Web Edition	N	N

NOTE: *1 The printer driver by a CD does not support 9x/ME. It will be provided on Web Site. The schedule is TBA.

Terminal Service & Citrix Metaframe: DDST Controller:

Not Supported

Point & Print: DDST Controller:

Not Supported

Mac OS: DDST Controller:

Not Supported

Unix: DDST Controller:

Not Supported

Novell Netware: DDST controller:

Not Supported

SAP R/3: DDST controller:

Not Supported

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Print Driver Features: GW Controller:

NOTE: The differences from model B259 series are written in **blue bold**.

Model	PCL 5e/ 6	RPCS	PostScript3				
			Windows 9x / Me	Windows NT4	Windows 2000/XP	Mac OS 8.6-9.2	Mac OSX
Send to Job Binding	N	Y	N	N	N	N	N
Send to Document Server	N	N	N	N	N	N	N
Sample Print	N	N	N	N	N	N	N
Locked Print	N	N	N	N	N	N	N
Hold Print	N	N	N	N	N	N	N
Stored Print	N	N	N	N	N	N	N
Stored Print (Shared)	N	N	N	N	N	N	N
Store and Print	N	N	N	N	N	N	N
Store and Print (Shared)	N	N	N	N	N	N	N
Reduce/Enlarge (Zoom/Scaling)	Y*2	Y	Y	Y	Y	Y	Y
Reduce/Enlarge Centering	N	Y	N	N	N	N	N
Fit to Paper size	Y	Y	Y	Y	Y	Y	Y
Unauthorized Copy	N	Y	N	N	N	N	N
Layout (N-up)	Y	Y	Y	Y	Y	Y	Y
Poster	N	Y	N	N	N	Y	N
Duplex *4	Y	Y	Y	Y	Y	Y	Y
Booklet1	N	Y	N	N	N	N	N
Booklet2 (Magazine)	Y	Y	N	N	Y	N	N
Non-Reduction Booklet	Y	Y	N	N	N	N	N
Watermark	Y	Y	Y	Y	Y	Y	Y
Overlay	N	Y	N	N	N	N	N
Header/Footer	N	Y	N	N	N	N	N
Adjust image position	N	Y	N	N	N	N	N
Binding Margins	N	Y	N	N	N	N	N
Collate	Y	Y	Y	Y	Y	Y	Y
Punch	N	N	N	N	N	N	N
Staple	N	N	N	N	N	N	N
Z-Folding	N	N	N	N	N	N	N
Cover sheet (Front Cover)	N	N	N	N	N	Y	Y
Back Cover	N	N	N	N	N	N	N
Front and Back Cover	N	N	Y	N	N	N	N
Slip Sheet	N	N	N	N	N	N	N
Chaptering	N	N	N	N	N	N	N
Designated Sheet Print	N	N	N	N	N	N	N
Tab Shift Printing	N	N	N	N	N	N	N
Rotate by 180 degrees	Y	Y	Y	Y	Y	N	N
Reverse Order Print	N	Y	N	N	Y	Y	Y
Do not print Blank pages	Y*3	Y	N	N	N	N	N
Dithering	Y	Y	Y	Y	Y	Y	Y
Edge Smoothing	Y	Y	Y	Y	Y	Y	Y
Toner Saving	Y	Y	Y	Y	Y	Y	Y
User ID	Y	Y	Y	Y	Y	Y	Y*1

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Model	PCL 5e/ 6	RPCS	PostScript3				
			Windows 9x / Me	Windows NT4	Windows 2000/XP	Mac OS 8.6-9.2	Mac OSX
User Code	Y	Y	Y	Y	Y	Y	Y*1
User Authentication	Y	Y	N	N	N	N	N
Encryption/Encoding	Y	Y	N	N	N	N	N
User Defined Pages	Y	N	N	N	N	N	N
Mirror Image Print	N	N	Y	Y	Y	N	N
Negative Image Print	N	N	Y	Y	Y	N	N
Edge to Edge Print	Y	Y	N	N	N	N	N
Limitation setting	Y	Y	N	N	N	N	N

Y: supported

N: not supported

NOTE:

*1: Available with MAC OS X 10.2 or later

*2: "Centering" feature cannot be selected from PCL driver. However, PCL has this feature as the original function when printing with Reduce/Enlarge (Zoom) feature of the PCL driver, the output will be automatically centered by the PCL's original centering function.

*3: This feature cannot be selected from printer driver. But enables to set to "ON" in "PCL setting" of MFP.

*4 Feature available only in Duplex standard model (B277)

Print Driver Features: DDST Controller:

	DDST	Printer Enhance Option for DDST Type2000		
		PCL5e Mini Driver Win 9x/Me	PCL5e Mini Driver Win 2K/XP	PCL6
Job Binding	N	N	N	N
Send to Document Server	N	N	N	N
Sample Print	N	N	N	N
Locked Print	N	N	N	N
Reduce/Enlarge (Scaling)	Y	N	N	Y
Reduce/Enlarge Centering	N	N	N	N
Collate	Y	Y	Y	Y
Layout (N-up)	Y	N	Y	Y
Poster	N	N	N	N
Duplex (Note 1)	Y	Y	Y	Y
Booklet1	Y	N	N	Y
Booklet2 (Magazine)	Y	N	Y	Y
Non-Reduction Booklet	N	N	N	N
Punch	N	N	N	N
Staple	N	N	N	N
Front Cover Sheet	N	N	N	N
Front and Back Cover Sheets	N	N	N	N
Slip Sheet	N	N	N	N
Chaptering (Page Layouting)	N	N	N	N
Chaptering (Single Page Inserting)	N	N	N	N
Chaptering (Page Block Inserting)	N	N	N	N
User Defined Pages	N	N	N	N
Tab Stock Printing	N	N	N	N
Mirror Image Print	N	N	N	N

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	DDST	Printer Enhance Option for DDST Type2000		
		PCL5e Mini Driver Win 9x/Me	PCL5e Mini Driver Win 2K/XP	PCL6
Negative Image Print	N	N	N	N
Dithering	N	Y	N	N
Edge Smoothing	Y	Y	Y	Y
Toner Saving	Y	Y	Y	Y
Watermark	Y	N	N	Y
Form Overlay	Y	N	N	N
Header/Footer	N	N	N	N
Adjust image position	N	N	N	N
Binding Margins	N	N	N	N
User ID	N	N	N	N
User Code	N	N	N	N
Rotate Print	N	N	N	N
Reverse Order Print	N	N	Y	N
Do not print Blank pages	N	N	N	N
Edge to Edge Print	Y	N	N	N

Y: supported
N: not supported

Scanner Features: GW Controller:

Optical Resolution:	Scan to email/folder: 100 / 200* / 300 / 400 / 600 dpi, *Default Twain: 100-1,200dpi	
Scan Speed:	When using the E-mail/ Scan to Folder/ Network Delivery Scanner function: 43 page/ min (Original size: A4 K, Original type: Text, Resolution: 200dpi, Compression: On, ITU-T No.1 chart, 1-side scanning) *Scanning speed varies according to machine operating conditions, computer (specification, network traffic, software, etc.) and original types.	
Auto scan size detection:	Contact Glass	11”x17”(DLT) SEF, 8 ½”x14”(LG) SEF, 8 ½”x11”(LT) LEF/SEF,
	ADF/ARDF	11”x17” (DLT) SEF, 8 ½”x14” (LG) SEF, 8 ½”x11”(LT) LEF/SEF, 5 ½”x8 ½”(HLT) LEF/SEF,
Scan Area:	Main Scan: 297mm, Sub Scan: 432mm	
Network Interface:	Ethernet 10/100BaseTX, Wireless LAN (802.11b)	
Protocol:	Network: TCP/IP Sending E-mail: SMTP, POP3 Scan to Folder: SMB, FTP, NCP	
Compression Method:	MH (default),MR,MMR *Can be changed in SP mode	
Scan Mode:	Text/Line Art (* default) Text Text/Photo Photo	
Image Density:	Lighter to Darker: 5 Levels	
2 Sided Scan	Yes (optional ARDF required)	
Image Rotation:	Yes	
SADF / Batch Mode:	No	
Mixed Size Mode	Yes	

Scan to E-mail Specification: GW Controller:

Requirement:		SMTP (Mail Server) Gateway and TCP/IP	
Authorization function:		SMTP authentication POP before SMTP authentication	
Resolution:		100dpi, 200dpi (Default), 300dpi, 400dpi, 600dpi	
MAX E-mail address#:		150 addresses (Incl. 32 speed dials)	
Register Group address:		Standard: 10 groups (100 numbers per 1 group)	
Maintain E-mail address:		Direct input on operation panel, Web Image Monitor, SmartDeviceMonitor for Admin	
Manual Input of destination E-mail address:		Possible, Max. 50 destinations per job	
Search E-mail address in Mainframe:		By name and E-mail address	
LDAP Search:		Yes	
Max. address numbers per send:		Max. 100 addresses per send *1	
Address numbers per send:		Address from address book *1	Max. 100
		Address directly input via operation panel*1 *2	Max. 50
		Address looked up via LDAP *1 *2	Max. 100
Attention:		To	
Subject:	**Manual Input:**	Max. 128 Characters	
	Pre-register by user:	No	
Body Message:	**Manual Input:**	No	
	Pre-register by user	No	
	Preset:	Message: “This e-mail included attached file sent from xxxx(machine model name).”	
E-mail Size (with restriction):		128 – 12,939KB, Default = 2,048KB	
File type:		Multi Page TIFF (Default), Multi Page PDF, Single Page TIFF, Single Page PDF	
PDF Security Setting:		Yes	
Program User Setting:		No	
Divide and send e-mail:		Number of pages divided: 2 – 102 (default: 5) Yes (By page or size) / No, Default = Yes (By size) *3	
Resend:		No	
Local Storage:		No	

NOTE:
*1: Address from address book + Address input via operation panel + Address looked up via LDAP = Max.100.
*2: Address directly input via operation panel + Address looked up via LDAP = Max. 50
*3: If the sent file size exceeded the maximum E-mail size, it would be divided to multiple sending. In addition, the sent files might not be accepted by the receiving side due to the limitation in the receiving capacity at the receiver SMTP server or E-mail software setting.

Scan to Folder Specification: GW Controller:

Protocol Support:	SMB (Server Message Block), FTP (File Transfer Protocol), NCP
Security:	Client folder log-in (log-in name and password) Encryption of log-in name and password during transmission
Resolution:	100dpi, 200dpi (Default), 300dpi, 400dpi, 600dpi
Register client folder address:	Max. 150 folders
Maintain client folder address:	Direct input on operation panel, WebImageMonitor, SmartDeviceMonitor for Admin
Destination client folder address Input via operation panel:	Yes SMB: Network path -> Client folder -> Password FTB: Server -> Network path -> User account -> Password
Search client folder:	SMB/NCP: Browsing directly to the designated folders FTP: By client folder name
Max. client folder numbers per send:	Max. 32 client folders / PCs per send
Destination Combination:	Please refer to 4.6.4
Group address:	Max. 132 destinations (To Folder: 32, To E-mail: 100) (*1)

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Scan to Folder Specification: GW Controller:

	e.g. 100 destinations 32 folders included >>>OK 100 destinations 33 folders included>>>Failure
Input Subject:	No
Scan File Size:	No limitation (Depends on PC HDD and memory.)
File Size when combined Scan to Folder & Scan to E-mail:	128 – 45,389KB, Default = 2,048KB (With restriction) (Scan to E-mail file size applied).
File type:	Multi Page TIFF (Default), Multi Page PDF, Single Page TIFF, Single Page PDF
PDF Security Setting	Yes
Program User Setting:	No
Resend:	No

NOTE:
*1 User can send to Max. 132 destinations in the same group. But the number of folders has to be less than 32, since Max. folder destinations are 32. If there are more than 32 folder destinations registered in the Group address, a message pops up.

Max. Address numbers per sending (combination between E-mail and Folder):

	Input via	**Condition 1: Max.address can select or input**	**Condition 2:** Max. address allow in single operation	**Condition 3: Combination of addresses: Max.**
Scan to E-mail	Address book	100	100	132
	Manual input	50		
Scan to Folder	Address book	32	32	
	Manual input	32		

Scanner Features GW Controller:

TWAIN Scanning:	
Document size	Max A3 / 11”x17”
Resolution:	Scanner: 600dpi Driver: 100-600dpi in 1dpi step
OS:	Windows 95 (OSR 2 or later), Windows98/ME/XP/2000, Windows NT (Service Pack 5 or later)
Memory:	Minimum required memory for OS + 8MB
CPU:	Pentium 150MHz or more, or minimum required CPU for OS
HDD:	More than 100MB of disk space is required.
Network:	Protocol: TCP/IP, UDP/IP, ICMP/IP

Scanner Features DDST Controller:

TWAIN Scanning:	
Document size:	Max A3 / 11”x17”
Resolution:	Scanner: 600dpi Driver: 100-600dpi in 1dpi step
OS:	Windows 98 (Include 2nd Edition or later), Windows ME, Windows 2000 (Include Server and Professional), Windows XP, Windows 2003
Memory:	Minimum required memory for OS: 64MB
CPU:	Minimum required CPU for OS: Pentium 150MHz or more
HDD:	More than 100MB of disk space is required.
I/O:	USB / NIC

Fax Features GW Controller ONLY:

		Remarks
Circuit:	PSTN, PBX	
Compatibility:	ITU-T (CCITT) G3	
Resolution:	200x100dpi, 200x200 dpi, 200x400dpi 8 x 3.85 l/mm, 8x7.7 l/mm, 8x15.4 l/mm	200x400dpi, 8x15.4 l/mm is not available for A3/ 11x17&B4
Compression method:	MH, MR, MMR, JBIG	
Scanning speed:	1.0 second (200x200/200x100, A4/ 8 1/2"x11" SEF) 2.0 second (200x400dpi, A4 / 8 1/2"x11" SEF)	
Number of Pages Scanned:	Short Edge Feed: 30 pages/ minute (200x100dpi, 200x200dpi) 16 pages/ minute (200x400dpi) Long Edge Feed: 36 pages/ minute (200x100dpi, 200x200dpi) 33 pages/ minute (200x400dpi)	
Modem speed:	Standard with Automatic Shift Down: 336000, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400 bps	
Transmission speed:	G3: Approx.2 seconds (200/100dpi, ITUT#1 chart, A4SEF, JBIG, TTI off, memory transmission)	
SAF memory:	Standard: 4MB No SAF memory option available.	
Page memory:	4MB No page memory option available.	
SAF memory storage:	160 sheets (ITU-T No. 1 chart)	
Memory backup:	One hour	
Super smoothing:	Standard (Binary)	
Stamp:	Option (Available with document feeder)	
Quick dial:	Standard (32 numbers)	32 out of 150 Speed dial can be assigned to Quick dial.
Speed dial:	Standard (150 numbers)	
Group dial:	Standard (10 groups, Max. 100 numbers per group)	
Keystroke program:	No	
Redial:	Standard (Last 10 destinations)	
AI short protocol:	Standard	
Direct fax number entry:	Standard	
Dual access:	Standard	
User Code:	Standard (8 digits, 50 Personal Codes)	
Label insertion:	Standard	
Auto document:	No	
Telephone directory:	Standard	
Page count:	Standard	
Auto reduction	Standard	A3→B4, A3→A4, B4→A4
Wild cards:	Standard	
Summer time (day light saving time):	Standard	
SUB/SID code:	No	
ID code programming:	Standard (4 digits, only for Memory Lock)	
User function key:	Standard (3 keys)	
Energy saver:	Standard	
Remaining memory indication:	Standard	
Memory file transfer:	Standard	
Internet FAX:	Option (T.37, Full mode)	Printer/Scanner option required
LAN FAX:	Option	Printer/Scanner option required
Local Storage:	No	

Transmission Features:

		Remarks
Immediate transmission:	Standard	
Memory transmission:	Standard	Max files: 200 Max attention: 300
Serial broadcasting (later):	Standard (Max. 300 numbers)	
Send later:	Standard	Memory transmission only
Automatic Redial:	Standard	Memory transmission only
Economy transmission:	No	
Forwarding:	Standard	
Batch transmission:	Standard	
Image rotation	Standard	
Book fax:	No	Book fax = split two facing pages of the book original into two separate pages and send each of the separate page.
Polling transmission:	No	
Double sided transmission:	B276: No B277: Yes (ARDF is required)	Memory transmission only. Up to A3 SEF.
Well log transmission:	Standard (Max. 600mm)	
Blank Sheet Detection:	Standard	

Reception Features:

		Remarks
Automatic reception:	Standard	
Manual reception:	Standard	
Substitute reception:	Yes	
Authorized reception:	Standard	
Multi copy:	No	
Reverse order printing:	No	
Memory lock:	Yes	
Confidential reception	No	
Polling reception:	No (* SEP code polling reception: Yes)	
Poll later:	No (* SEP code polling reception: Yes)	
Polling from memory:	No (* SEP code polling reception: Yes)	
Multi-polling reception:	No (* SEP code polling reception: Yes)	
Continuous polling:	No	
Reception time printing:	Standard	
2 in 1 (two in one):	Standard	
Image rotation:	Standard	
Image reduction:	Standard	
Duplex reception	No	

LAN Fax M10 Specification:

Requirement of Mainframe:	G3 fax option and GW Printer/Scanner Option are required.
Paper Size:	A3, DLT, B4, A4 Letter (default), Legal, B5, A5
Resolution:	-Detail (200 x 200 dpi) *default -Standard (200 x 100 dpi)
Gray Scale:	-Off -On normal *default -On lighter
Number of Address:	300
OS:	Windows 95/98/Me/XP, Windows NT4.0, Windows2000/2003 (Gray Scale is only available for the driver of Windows95/98, Me)
Interface:	Ethernet (100Base-TX/ 10BASE-T) Wireless LAN Interface (IEEE802.11b)
Protocol:	G3
TTI:	Yes
Compression Method:	MMR
Send Later:	Yes
Page Rotation:	Yes
Internet Fax:	Yes
Local Storage:	No
Transfer Request:	No
Cover Sheet Editor:	Yes
Address Book Import/Export:	Yes

Internet Fax:

Requirement:	Fax option and GW Printer/Scanner option
Interface:	Ethernet (100BASE-TX/ 10BASE-T) Wireless LAN Interface (IEEE802.11b)
Paper Size:	A3, DLT, B4, A4 Letter (default), Legal, B5, A5
Resolution:	200x100dpi, 200x200dpi (default), 200x400dpi
Compression method:	MH, MR, MMR
File Format:	TIFF-F
Scan Mode:	Text: for text original Photo: for photo mode original
Number of Address storage:	Standard: 150 (Share address book capacity with E-mail address)
Maintain E-mail Address:	Operation panel, Web Image Monitor, Smart Device Monitor
Attention:	To (max attention 300 address)
Attached Subject:	5 programs Default: “Urgent”/ “High” Enter up to 64 characters per subject
Destination combination:	Internet fax and G3 fax

IP-FAX Specifications:

Requirement:	Fax option and GW Printer/Scanner option
Network:	LAN: Local Area Network Ethernet/10base-T, 100base-TX, IEEE802.11b (wireless LAN)
Scan line density:	8 x 3.85 lines/mm, 200 x 100 dpi (Standard character), 8 x 7.7 lines/mm, 200 x 200 dpi (Details character), 8 x 15.4 lines/mm (Fine character),
Original size:	Maximum A3 or 11" x 17" (DLT)
Maximum scanning size:	Standard: A3, 297mm x 432mm, Irregular: 297mm x 1200mm
Transmission protocol:	Recommended: T.38 Annex, TCP, UDP/IP communication, SIP(RFC 3261 compliant), H.323 v2
Compatible machines:	IP-FAX compatible machines
IP-FAX transmission function:	Specify an IP address and send faxes to an IP-FAX compatible fax through a network. Also capable of sending faxes from a G3 fax connected to a telephone line via a VoIP gateway.
IP-FAX reception function:	Receive faxes sent from an IP-FAX compatible fax through a network. Also capable of receiving faxes from a G3 fax connected to a telephone line via a VoIP gateway

Program Parameter Switch with Web Image Monitor:

Just Size Printing		On/Off
Convert to PDF when Transferring to Folder		On/Off
Automatic Printing Report		
	Journal	On/Off
	Immediate Transmission Result Report	On/Off
	Communication Result Report	On/Off
	Memory Storage Report	On/Off
	SEP Code RX Result Report	On/Off
	SEP RX Reserve Report	On/Off
	LAN- Fax Result Report	On/Off
	Inclusion of Part of Image	On/Off
E-mail Settings		
	Error E-mail Notification	On/Off
	Display Network Errors	On/Off
	Journal Notification by E-mail	On/Off
	Response to RX Notice Request	On/Off
	Select Destination Type Priority	Paper Output/Electronic Output

Utility Software:

Software	Description
Font Manager (Win95/98/ME, NT4, 2000, XP, Server 2003):	The Font Manager 2000 installs the screen fonts in your Windows 95/98/Me/NT 4.0/2000/XP/Server 2003. Installing the screen fonts for the printer fonts improves the WYSIWYG quality.
Smart Device Monitor for Admin:	A utility for administrators who need to manage and monitor printers over the network. The Smart Device Monitor for Admin for Windows 95/98/Me/NT 4.0/2000/XP/Server 2003 Setup utilities are also available. Our device monitoring software has been renamed from Smart Net Monitor to Smart Device Monitor. Operation of Smart Device Monitor is the same as SmartNetMonitor. In case you already have SmartNetMonitor installed in your PC overwrite it with Smart Device Monitor, software settings and log data will be carried over.
Smart Device Monitor for Client (Win95/98/ME, NT4, 2000, XP, Server 2003)	A utility enables you to access networked printers to print, to monitor and to receive notices without a server. This utility also enables the following features: Recovery Printing Parallel Printing Our device monitoring software has been renamed from SmartNetMonitor to SmartDeviceMonitor. Operation of Smart Device Monitor is the same as Smart Device Monitor. In case you already have SmartNetMonitor installed in your PC overwrite it with Smart Device Monitor, software settings and log data will be carried over.
Device Graphic Update Module	Device Graphic Update Module provides bitmap images used to represent the various statuses of devices graphically within Smart Device Monitor or Web Smart Device Monitor. Available on website.
DeskTop Binder	With the DeskTopBinder Lite you can connect client computers to I/O devices. You can efficiently input, edit and output data using your computer.
Printer Utility for Mac	This is a utility for Macintosh that provides access to several network printing administrative features.
PS Descriptions	PDD for Mac By interacting with the Adobe PostScript 3 controller in the device, this PPD is able to produce an accurate representation of the screen image.
Mac OS X PPD Installer	This PPD installer is used to install a PPD (Postscript Printer Description) file on Mac OSX. PPD files contain descriptions of printer capabilities such as paper sizes, number of input trays and duplexing. Once the PPD file is installed on the system using the PPD installer, the PS driver that comes bundled with Mac OS X can use the information in the PPD to control the print device and enable full functionality. It supports the Mac OS X 10.1 or later. Please see the Readme file for information about compatibility with versions of Mac OS X.
LAN FAX Driver M10	This software enables you to fax documents directly from your computer. The Address Book Editor and Cover Sheet Editor are installed as well. This software requires the optional fax unit to be installed on the machine. M10 Driver
RPCS Driver	Printer driver for Windows: It is optimized for the Windows GDI. High performance printing can be expected. Regularly used settings can be saved as a "one-click icon" in the driver interface. These settings can be reused easily by clicking the icon.

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Software	Description
PCL 6 Driver	Printer driver for B/W printing in Windows. It supports HP PCL XL commands and is optimized for the Windows GDI. High performance printing can be expected.
PCL 5e Driver	Printer driver for printing in Windows. It supports HP PCL 5e commands.
PCL 6 Driver for Windows XPx64 / 2003x64	Printer driver for B/W printing in Windows. It supports HP PCL XL commands and is optimized for the Windows GDI. High performance printing can be expected.
PCL 5e Driver Windows XPx64 / 2003x64	Printer driver for printing in Windows. It supports HP PCL 5e commands.
DDST Print Driver	Printer driver for printing in Windows using DDST Controller
Post Script Driver	By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.
IEEE 1394 Printer Removal Utility	This utility completely removes all printers connected via IEEE 1394 interface from your Windows 2000/XP/Server 2003 system. This will prepare your Windows 2000/XP/Server 2003 system for the proper reinstallation of IEEE 1394 printers.
USB Print	USB Printing Support is a USB device driver for the Windows 98/Me environment. This utility can connect the device to a Windows 98/Me PC with a USB cable.
Network TWAIN Driver V4.20	TWAIN scanner driver for network connections with new features Combine/Series, compatible with SNMP V3and Network Connection Tool.
DDST TWAIN Driver	TWAIN scanning using the DDST controller

Total Counter Access:

Basic and DDST Models:

- User Tools / Counter → Counter → OK →Print → Start
- User Tools / Counter → Arrow down → System Settings → OK → Key Operator Tools → OK → Arrow down until displays Display/Printer Counter → OK → Print → Start

Models with GW controller:

- User Tools / Counter → Counter → OK →Print → Start
- User Tools / Counter → Arrow Down → System Settings → OK→ Arrow up until Administrator Tools → OK→Arrow up until Display / Print Counter → OK → Print → Start

All Models:

- Maximum 7 digits
- Mechanical counter 7 digits – Location: open front cover – Left Hand Corner

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Installation Requirements:

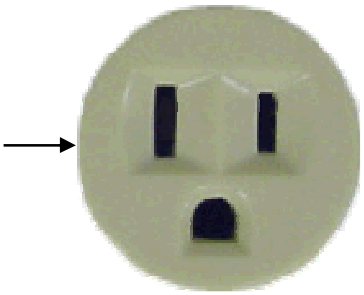
Temperature Range: 10°C to 32°C (50°F to 89.6°F)
Humidity Range: 15% to 80% RH
Aminent Illumination: Less than 1,500 LUX (do not expose to direct sunlight.)
Ventilation: Room air should turn over at least 3 times/ hour/ person
Ambient Dust: Less than 0.075 mg/m^3 (2.0 x 10-6 oz/yd^3)
Avoid an area, which is exposed to sudden temperature changes. This includes:
Areas directly exposed to cool air from a fan, an air conditioner or air cleaner etc.
Areas directly exposed to heat from a heater.
Do not place the machine in an area where it will be exposed to corrosive gases.
Do not install the machine at any location over 2,000 m (6,500 ft.) above sea level.
Place the machine on a strong and level surface. (Inclination on any side should be no more than 5 mm.)
Do not place the machine where it may be subjected to strong vibrations.

Machine Level:

Front to back: Within 5 mm (0.2") of level
Right to left: Within 5 mm (0.2") of level

Power Requirements:

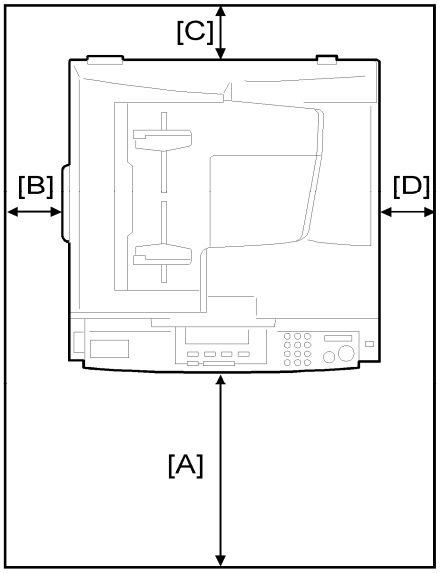
Input voltage level: 120 V, 60Hz: 12 A
Permissible voltage fluctuation: ±10%
Do not place anything on power cord.
The required wall outlet is a NEMA 5-15R (receptacle)



Installation Times:

Unit	Installation Time (Minutes)	Unit	Installation Time (Minutes)
Mainframe	25	ADF	10
Paper Tray Unit (one or two tray)	10	RADF	10
IEEE 802.11b	5	PostScript	5
Blue Tooth	5	Optional Counter Interface Unit Type A	10
GW Printer/Scanner option	15	DDST Printer Option	15
IEEE 1284	5	One bin tray	10
Accessibility Handle	5	Fax Unit for GW controller	15

Machine Space Requirements:



A (front): 750 mm (30")
B (left): 150 mm (6")
C (rear): 50 mm (2")
D (right): 250 mm (10")

Dimensions (W x D x H):	B276	W550 x D568 x H480 mm (W21.7” x D22.4” x H23.0”)
	B277	W587 x D568 x H558 mm (W23.1” x D22.4” x H23.0”)
With Bypass table closed and without ADF/ARDF		

PM Table

Mainframe: B276/B277:

Unique/Common
U: Unique for this model
C: Common with listed model

***1 part of PM Kit Part #: PMB12160K**
***2 part of PM Kit Part #: PMB121120K**

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
Paper Feed				
B0392740	Paper Feed Roller (B277) (*2)	2	120K	C (B261)
B0392740	Paper Feed Roller (B276)	1	120K	C (B261)
B0392711	Friction Pad (B277) (*2)	2	120K	C (B261)
B0392711	Friction Pad (B277)	1	120K	C (B261)
Transfer Roller Unit				
B0393820	Transfer Roller (*2)	1	120K	C (B261)
Fusing Unit				
AE011113	Hot Roller (*2)	1	120K	C (B261)
AE020150	Pressure Roller (*2)	1	120K	C (B261)
AE044062	Stripper Pawl (*2)	5	120K	C (B261)
G0294174	Pressure Roller Bushing (*2)	2	120K	C (B261)
B2594015	Fusing Cleaning Roller (*2)	1	120K	C (B261)
Photoconductor Unit				
AD027018	Charge Roller (*1)	1	60K	C (B261)
AD042058	Cleaning Sponge Charge Roller (*1)	1	60K	C (B261)
B0392335	Pickoff Pawl (*1)	2	60K	C (B261)
AD042059	Cleaning Blade (*1)	1	60K	C (B261)
B0399510	OPC Drum	1	60K	C (B261)
B1219640	Developer Type 28	1	60K	C (B261)

ADF: B813

Part Number	Description	Q'ty /Unit	PM Interval (Originals)	Unique or Common
B3871671	Separation Roller	1	80K	C (DF72 B387)
A8592141	Belt Paper Feed	1	80K	C (DF72 B387)
B3872161	Pick Up Roller	1	80K	C (DF72 B387)

ADF: B814

Part Number	Description	Q'ty /Unit	PM Interval (Originals)	Unique or Common
A8592241	Separation Roller	1	80K	C (DF69)
A8592141	Belt Paper Feed	1	80K	C (DF69)
B3862171	Pick Up Roller	1	80K	C (DF69)

Paper Tray Unit: B385 (PS460) (One Tray)

Part Number	Description	Q'ty /Unit	PM Interval	Unique or Common
A2672751	Paper Feed Roller	1	120K	C (B040)
B3902831	Friction Pad	1	120K	C (B040)

Paper Tray Unit: B384 (PS450) (Two Trays)

Part Number	Description	Q'ty /Unit	PM Interval	Unique or Common
A2672751	Paper Feed Roller	2	120K	C (B040)
B3902831	Friction Pad	2	120K	C (B040)

Special Tools:

Unique or Common:
U: Unique for this model
C: Common with listed model

Item	Part Number	Description	Q'ty	Unique or Common
1	A0069104	Scanner Positioning Pin (4pcs/set)	1	C
2	A2929500	Test Chart - S5S (10pcs/set)	1	C
3	VSSM9000	Digital Multimeter - FLUKE 87	1	C
4	N8036701	Flash Memory Card - 4MB	1	C
5	N8031000	Case for Flash Memory Card	1	C
7	52039502	Silicon Grease 501	1	C
8	B6455010	SD Card Kit	1	C
9	B6456700	PCMCIA Card Adapter	1	C
10	B6456820	USB Reader/Writer	1	C
12		Ricoh System Information Tool (Support Tool Version 2) - Basic version - Mail version - Rlogtool	1	C

Initial Recommended Service Parts:

Part Number	Description	Quantity	Remarks
	Heater Lamp	1	Replace as needed
AW11 0037	Fusing Thermostat – 160c	1	Replace as needed
AW11 0038	Fusing Thermostat – 170c	1	Replace as needed
AW10 0088	Thermistor	1	Replace as needed
AX44 0202	Fusing Lamp 800W	1	Replace as needed
B2624018	Fusing Unit (120V)	1	Replace as needed
B262 5101	BICU PCB	1	Replace as needed
AZ32 0152	Power Pack	1	Replace as needed
AZ23 0161	Power Supply Unit	1	Replace as needed
PMB12160K	PM Kit	1	60K
PMB121120K	PM Kit	1	120K

- Refer to PM Table for additional initial recommended part numbers.

Service Information:

Firmware Structure:

PCMCIA cards will be used to upgrade the B267/B277 BICU Basic machine or the DSST controller (Common with B129)
The B266/B277 with GW Controller will use a SD Card for all firmwares. (Common with B070)

Firmware Card	Firmware
BICU – Basic Machine	BICU Firmware (PCMCIA)
DDST Controller	DDST Controller (PCMCIA)
BICU – GW Controller	BICU Firmware (SD Card)
System/Copy	Feature Expander Board Option (SD Card)
FAX	FCU Firmware Fax Application Firmware (SD Card)
FCU	FCU Firmware (SD Card)
Printer	Printer Firmware (SD Card)
Scanner	Scanner Firmware (SD Card)
RFAX	Remote Fax Firmware (SD Card)
Net File	DocBox Firmware (SD Card)
NIB	Network Support Firmware (SD Card)
PS3	PostScript 3 Firmware (SD Card)
Web Support	Web Support Firmware (SD Card)

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Contact Information:

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: (800) 537-4264 Savin/Gestetner: (800) 291-6044 Lanier: (800) 333-3147
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993 Gestetner Phone Card: 2 Call - 12994, 5 Call - 12995
National Reclamation Center	(800) 557-4264 http://www.nrc-usa.com
Technology Solutions Center Web Site	http://www.tscweb.net
Configurator	http://www.connectivity-cafe.com
Ricoh Web Site	http://www.ricoh-usa.com/
Savin iLINC Web Site	http://w3.savin.com
Gestetner ILINE Web Site	http://W3.gestetnerusa.com
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/ Lanier Corporation: http://www.lanier.com
Material Safety Data Sheets	(800) 336-MSDS (6737)
Eastern Training Center	(973) 808-7646 http://www.ricohuniversity.com
Western Training Center	(714) 566-3692 http://www.ricohuniversity.com
Lanier Education Center	(678)-824-3000

Target Reliability:

	B276	B277
ACV	3.5K/month	4K/month
Max Copy Volume	12.5K/month	15K/month
PM Interval	60K	60K
*For more information regarding Target Reliability, refer to the Cost Fact Sheet.		

Non Recommended Paper:

Paper for inkjet printers
Thermal fax paper
Art paper
Aluminum foil
Carbon paper
Conductive paper
OHP transparencies for color copying
Paper with perforated lines
Hemmed paper
Bent, folded or creased paper
Torn paper
Slippery paper
Perforated paper
Rough paper
Thin paper with little stiffness
Paper with a dusty surface
Tab Stock

Branding:

Branding is required as the machines are shipped as a generic version.
Ricoh version machines: You must adhere the model label (provided) to the front cover.
Savin/Gestetner/Lanier: You must adhere the model label (provided) to the front cover and set the Plug and Play name with SP

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Revisions:

1.0 Original
2.0 Launch date changed to 02/2007, Lanier Brand name changed.
3.0 PM Table changes